

Schneider Electric, ENGIE Lab and Nanyang Technological University will develop a renewable micro-grid demonstrator in Singapore

- An initiative to address the energy access challenge in off-grid areas and islands by integrating various renewable sources and storage systems
- A partnership to test innovative solutions and services in electricity and mobility

Singapore, March 27, 2017 – [Schneider Electric](#), the global specialist in energy management and automation, has signed a tripartite agreement with ENGIE Lab¹ and Nanyang Technological University (NTU) to address the energy access challenge for off-grid areas in Singapore state and more globally in Asia Pacific and South-East Asia region. The agreement was signed today at The Innovation Forum, Biopolis (Singapore), as part of French President Francois Hollande's visit to Southeast Asia, covering Singapore, Malaysia and Indonesia, from March 26 to 29, 2017.

Micro-grids can meet the need for electrification of hundreds or thousands of islands in the Southeast Asian region that are not connected to the public grid. This joint initiative is part of the existing [REIDS \(Renewable Energy Integration Demonstrator in Singapore\)](#) project located on Semakau Island (Singapore). Led by NTU with a consortium of partners, including ENGIE Lab and Schneider Electric, the REIDS aims to develop a micro-grid demonstrator to address the energy access challenge in off-grid areas and islands by integrating various renewable sources and storage systems. The collaboration will bring together operational excellence and planning capabilities from ENGIE and energy management expertise and innovative offer from Schneider Electric. The partnership will integrate and test innovative solutions providing a package of services including electricity and mobility. Key innovations of the project include:

- Scalability and ability to start from both greenfield system and brownfield system through a plug and play approach;
- A power control module allowing up to 100% intermittent renewable integration thanks to a cutting-edge technology of algorithms associated to virtual synchronous generator;
- A multi-fluid optimization module to enhance synergies between different decentralized energy resources to provide cheap and reliable electricity with low environmental impact.

Beyond this highly innovative project, Schneider Electric strategic intent is to set up and develop highly skilled competencies in Singapore to help its customers facing growing demand of clean energy in the country but also at the end to duplicate the initiative within the Asia Pacific and South-East Asia region.

¹ ENGIE Lab Crigen is ENGIE research and operational expertise center dedicated to gas, new energy sources and emerging technologies

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